



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/823,400
Filing Date	April 13, 2004
First Named Inventor	Ralph Bauer
Art Unit	1714
Examiner Name	Tae H. Yoon
Attorney Docket Number	1035-A4363

Sheet 1 of 4

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
✓	AA	US- 2004/265219 A1	12/30/2005	Bauer et al.	
✓	AB	US- 2006/104895 A1	05/18/2006	Bauer et al.	
	AC	US- 2006/148955 A1	07/06/2006	Guiselin et al.	
	AD	US- 4,632,364	12/30/1986	Smith	
	AE	US- 5,155,085	10/13/1992	Hamano et al.	
	AF	US- 5,302,368	04/12/1994	Harato et al.	
	AG	US- 5,508,016	04/16/1996	Yamanishi et al.	
	AH	US- 6,747,087 B2	06/08/2004	Custodero et al.	
	AI	US- 6,653,387 B2	11/25/2003	Causa et al.	
	AJ	US- 3,842,111	10/15/1974	Meyer-Simon et al.	
	AK	US- 3,873,489	03/25/1975	Thurn et al.	
	AL	US- 3,978,103	08/31/1976	Meyer-Simon et al.	
	AM	US- 3,997,581	12/14/1976	Pietka et al.	
	AN	US- 5,580,914	12/03/1996	Falla et al.	
	AO	US- 5,583,245	12/10/1996	Parker et al.	
	AP	US- 5,663,396	09/02/1997	Muslieve et al.	
	AQ	US- 5,684,171	11/04/1997	Wideman et al.	
	AR	US- 5,684,172	11/04/1997	Wideman et al.	
✓	AS	US- 4,386,185	05/31/1983	Macdonell et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
✓	AT	EP 0 501 227 B1	12/06/1995	Michelin & CIE	English Abstract	
	AU	WO 2003/089508 A1	10/30/2003	SG Ceramics & Plastics		
	AV	WO 2004/016630 A1	02/26/2004	Centre National	English Abstract	
	AW	WO 2004/090023 A1	10/21/2004	Michelin	English Abstract	
	AX	WO 2006/002993 A1	01/12/2006	Michelin	English Abstract	
✓	AY	WO 2007/056404 A1	05/18/2007	SG Ceramics & Plastics		

Examiner
Signature

/Tae Yoon/

Date
Considered

08/13/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 4**Complete if Known**

Application Number	10/823,400
Filing Date	April 13, 2004
First Named Inventor	Ralph Bauer
Art Unit	1714
Examiner Name	Tae H. Yoon
Attorney Docket Number	1035-A4363

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
[Handwritten mark]	BA	US- 4,002,594	01/11/1977	Fetterman	
	BB	US- 5,580,919	12/03/1996	Agostini et al.	
	BC	US- 2004/0030017 A1	02/12/2004	Simonot et al.	
	BD	US- 6,858,665 B2	02/22/2005	Larson	
	BE	US- 5,696,197	12/09/1997	Smith et al.	
	BF	US- 3,321,272	05/23/1967	Kerr	
	BG	US- 3,950,180	04/13/1976	Kato	
	BH	US- 5,286,290	02/15/1994	Risley	
	BI	US- 5,318,628	06/07/1994	Matijevic et al.	
	BJ	US- 5,321,055	06/14/1994	Slocum	
	BK	US- 5,344,489	09/06/1994	Matijevic et al.	
	BL	US- 6,017,632	01/25/2000	Pinnavaia et al.	
	BM	US- 6,156,835	12/05/2000	Anderson et al.	
	BN	US- 6,486,254 B1	11/26/2002	Barbee et al.	
	BO	US- 6,646,026 B2	11/11/2003	Fan et al.	
	BP	US- 6,648,959 B1	11/18/2003	Fischer et al.	
	BQ	US- 2004/0120904 A1	06/24/2004	Lye et al.	
	BR	US- 6,872,444 B2	03/29/2005	McDonald et al.	
	BS	US- 6,924,011 B2	08/02/2005	Van Aert et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
[Handwritten mark]	BT	WO 98/14426	04/09/1998	Bionumerik Pharmaceuticals Inc.		
	BU	WO 2005/100491 A2	10/27/2005	Saint-Gobain Ceramics		
	BV	GB 1189304	04/22/1970	British Petroleum Co.		
	BW	EP 0 038 620 A2	10/28/1981	ICI PLC		
	BX	WO 2006/60206 A1	06/08/2006	Saint-Gobain Ceramics		
	BY	EP 0 697 432 B1	10/15/2003	Bridgestone Corp.		

Examiner Signature	/Tae Yoon/	Date Considered	08/13/2007
--------------------	------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/823,400
Filing Date	April 13, 2004
First Named Inventor	Ralph Bauer
Art Unit	1714
Examiner Name	Tae H. Yoon
Attorney Docket Number	1035-A4363

Sheet 3 of 4

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
3	CA	US- 2007/104952 A1	05/10/2007	Bianchi et al.	
	CB	US- 6,417,286 B1	07/09/2002	Agostini et al.	
	CC	US- 6,534,584 B2	03/18/2003	Wideman et al.	
	CD	US- 6,635,700 B2	10/21/2003	Cruse et al.	
	CE	US- 4,377,418	03/22/1983	Birchall et al.	
	CF	US- 4,539,365	09/03/1985	Rhee	
	CG	US- 4,623,738	11/18/1986	Sugerman et al.	
	CH	US- 4,558,102	12/10/1985	Miyata	
	CI	US- 5,723,529	03/03/1998	Bernard et al.	
	CJ	US-			
	CK	US-			
	CL	US-			
	CM	US-			
	CN	US-			
	CO	US-			
	CP	US-			
	CQ	US-			
	CR	US-			
	CS	US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁵
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
3	CT	WO 2006/60468 A3	06/08/2006	Saint-Gobain Ceramics		
	CU	EP 1 112 961 B1	09/15/2004	Sumitomo Chemical Co.		
	CV	WO 2004/056915 A1	07/08/2004		English Abstract	
	CW	EP 1 000 965 B1	10/08/2003	Bridgestone Corp.		
	CX	EP 0 807 603 B1	12/17/2003	Sumitomo Chemical Co.		
	CY					

Examiner
Signature

/TY/ /Tae Yoon/

Date
Considered

08/13/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number		10/823,400
	Filing Date		April 13, 2004
	First Named Inventor		Ralph Bauer
	Art Unit		1714
	Examiner Name		Tae H. Yoon
Sheet	4	of	4
Attorney Docket Number			1035-A4363

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
23	DA	Grant et al., "Grant and Hackh's Chemical Dictionary", 5th Ed., (1987), McGraw-Hill Book. Co. USA, ISBN 0-07-024067-1, pg. 160	
	DB		
	DC		
	DD		
	DE		
	DF		
	DG		
	DH		
	DI		
	DJ		

Examiner Signature	/Tae Yoon/	Date Considered	08/13/2007
---------------------------	------------	------------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.